

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method of displaying a multi-mode stereoscopic image, comprising the steps of:

aligning a display unit with a variable color barrier, the display unit having first pixels ~~for a left eye picture~~ and second pixels displaying mixed image signals, each of the first and second pixels having at least one sub-pixel cell used for creating a left-eye picture and at least one other sub-pixel cell used for creating a right-eye picture, and a the variable color barrier unit having first and second variable filters adjacent to and alternated with each other such that the first variable filters are of a first color and a color of the second variable filters is a complement of said first color, wherein each of said first and second variable filters are is overlapped with a portion of said first pixels and a portion of said second pixels;

displaying video signals obtained by photographing an object at a different angle angles on the display unit;

generating a mode signal for selecting between a stereoscopic mode and a plane mode;

applying a first voltage to the first variable filters such that the first variable filters transmit a first color and wavelength of light toward an observer

while shutting off light of other colors and wavelengths, and simultaneously  
applying a second voltage to said first and the second variable filters, such that  
the second variable filters transmit light of said other colors and wavelengths  
toward the observer while shutting off light of said first color and wavelength,  
so that a stereoscopic picture is viewed in said left eye picture of said first and  
second pixels is incident to said left eye, and said right eye picture of said first  
and second pixels is incident to said right eye, in said stereoscopic mode; and

applying a third voltage to both of said first and second variable filters to  
transmit light of all colors and wavelengths from both of said first and second  
pixels toward the observer in a mixed state so that a plane picture is viewed in  
said plane mode,

whereby the observer recognizes a stereoscopic picture formed of the  
separate left-eye picture and the right-eye picture when the first and second  
voltages are applied to the first and second variable filters, and the observer  
recognizes a plane picture when the third voltage is applied to the first and  
second variable filters.

2. (Currently Amended) A multi-mode stereoscopic image displaying  
apparatus, comprising:

an image signal converter for combining video signals obtained by  
photographing an object at different angle angles, and for creating mixed image  
signals;

a display device having first pixels and second pixels for displaying the mixed image signals received from the image signal converter, each of the first and second pixels having at least one sub-pixel cell used for creating a left-eye picture and at least one other sub-pixel cell used for creating a right-eye picture ~~video signals received from the image signal converter as a picture;~~

a variable color barrier unit having first and second variable filters adjacent to and ~~alternated with each other such that said first variable filters are of a first color and a color of the second variable filters is a complement of said first color,~~ wherein each of said first and second variable filters ~~are~~ is overlapped with a portion of said first pixels and a portion of said second pixels; and

a mode conversion controller for generating a mode signal for selecting between a stereoscopic mode and a plane mode;

a voltage source for generating first, second and third voltages; and

a switch connected between said variable color barrier unit and said voltage source to apply said first voltage to the first variable filters such that the first variable filters transmit a first color and wavelength of light toward the observer while shutting off light of other colors and wavelengths, ~~second and third voltages to said first and second variable filters,~~ and to simultaneously apply said second voltage to said second variable filters such that the second variable filters transmit light of said other colors and wavelengths toward an observer while shutting off light of said first color and wavelength when said

switch is in the stereoscopic mode, and to apply said third voltage to said both of said first and second variable filters of said variable color barrier unit when said switch is in response to the plane mode signal,

whereby the observer recognizes a stereoscopic picture formed of the separate left-eye picture and the right-eye picture when the first and second voltages are applied to the first and second variable filters, and the observer recognizes a plane picture when the third voltage is applied to the first and second variable filters.

3. (Previously Presented) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the variable color barrier unit is arranged at a front side of the display device.

4. (Previously Presented) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the variable color barrier unit is arranged at a rear side of the display device.

5. (Previously Presented) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the variable color barrier unit is a liquid crystal display panel adopting any one of an electrically controlled birefringence (ECB) mode and a guest-host (GH) mode.

6. (Previously Presented) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the mode conversion controller receives a user instruction to select between the stereoscopic mode and the plane.

7. (Currently Amended) A multi-mode stereoscopic image displaying apparatus, comprising:

an image signal converter for combining video signals obtained by photographing an object at ~~a different angle~~ angles, and for creating mixed image signals ~~such that the image signal has a left eye picture and a right eye picture~~;

a display device having first and second pixels for displaying the ~~video mixed image~~ signals received from the image signal converter, each of the first and second pixels having at least one sub-pixel cell used for creating a left-eye picture and at least one other sub-pixel cell used for creating a right-eye picture;

a color barrier having first and second color filters adjacent to and alternated with each other ~~such that said first color filters are of a first color and a color of said second color filters is a complement of said first color~~, wherein each of said first and second color filters ~~are~~ is overlapped with a portion of said first pixels and a portion of said second pixels such that the left-eye picture is incident to the left eye and the right-eye picture is incident to the right eye of an observer;

a light-scattering device, ~~being~~ arranged between the display device and the color barrier, ~~for~~

wherein the light scattering device transmitting transmits an incident light as it is in a separated state in response to a first voltage, thereby creating a stereoscopic picture formed of the separate left-eye picture and the right-eye picture to be observed when the light scattering device is in a stereoscopic mode, and

wherein the light scattering device scattering scatters said incident light in response to a second voltage other than said first voltage, thereby creating a plane picture to be observed when the light scattering device is in a plane mode.

8. (Original) The multi-mode stereoscopic image display apparatus according to claim 7, wherein the light-scattering device includes a polymer-dispersed liquid crystal (PDLC).

9. (Currently Amended) The multi-mode stereoscopic image display apparatus according to claim 7, further comprising:

a mode conversion controller for generating a mode signal for selecting between the stereoscopic mode and the plane mode in accordance with the user instruction;

a voltage source for generating said first and second voltages; and

a switch connected between the light scattering device and the voltage

source to apply said first and second voltages to the light scattering device in response to the mode signal.

10. (Currently Amended) The method of displaying a multi-mode stereoscopic image according to claim 1, wherein each of said first and second variable filters ~~are~~is overlapped with a half portion of said first pixels and a half portion of said second pixels.

11. (Currently Amended) The multi-mode stereoscopic image displaying apparatus according to claim 2, wherein each of said first and second variable filters ~~are~~is overlapped with a half portion of said first pixels and a half portion of said second pixels.

12. (Currently Amended) The multi-mode stereoscopic image displaying apparatus according to claim 7, wherein each of said first and second color filters ~~are~~is overlapped with a half portion of said first pixels and a half portion of said second pixels.